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**P**HOOTOGRAPHIC  
**I**NTERPRETATION  
**R**EPORT

NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**DEPLOYMENT OF A NEW-TYPE  
PROBABLE R-100 SERIES RADIO  
VAN TRUCK WITH TALL RODS  
ANTENNA SYSTEM  
USSR**

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**DISSEMINATION CONTROL ABBREVIATIONS**

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
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## DEPLOYMENT OF A NEW-TYPE PROBABLE R-100 SERIES RADIO VAN TRUCK WITH TALL RODS ANTENNA SYSTEM, USSR

### ABSTRACT

1. This report discusses a new-type probable R-100 series radio van truck when it is seen with the TALL RODS antenna system. This report also includes a location map, two annotated photographs of the vehicle, and photographic references.

### BASIC DESCRIPTION

2. High-resolution imagery of the following USSR installations has revealed that the new-type probable R-100 series radio van truck was deployed with a TALL RODS antenna system. The installations (Figure 1) are Nebit Dag Army Barracks AL 1 [REDACTED], Tashkent Military Radcom Receiver Station [REDACTED] Osh Army Barracks AL 1/SAM Support Facility/Reserve Equipment Depot [REDACTED] and Arsenyev Radcom Receiver Station DF Support [REDACTED]

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3. The chamfer-bodied, URAL-375-type probable radio van truck was identified for the first time [REDACTED] at Sumber Suma Army Barracks AL 2 [REDACTED] in Mongolia. The van body is characterized by a predominant, light-toned C shape on its roof, probably due to stretched canvas.

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4. [REDACTED] the new-type probable radio van truck was observed connected by cable to a SQUARE FOUR antenna set in the barracks training area of Nebit Dag. Also, two sets of TALL RODS, a SPIKE TWO-type trailer, and a van truck were observed. [REDACTED] the new vehicle was seen at this facility (Figure 2) connected by cable to a TALL RODS set and to a double-axled van trailer. A small building next to the radio van truck was also connected by cable to the TALL RODS, the van trailer, and to an unidentified mast. It was noted that the ZIL-157-type van truck and the SQUARE FOUR antenna array usually associated with the FULL HOUSE communications intercept direction-finding system\* were not present at this sighting.

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5. At Tashkent (Figure 3), photography [REDACTED] showed a probable diamond-shaped antenna on a mast between the cab and van body on the right side of the probable R-100 series radio van truck. [REDACTED] The ZIL-157-type van truck and the SQUARE FOUR antenna were not observed on this date. These two pieces of associated equipment also were not present at Osh [REDACTED] However, on [REDACTED]

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\*The FULL HOUSE communications intercept direction-finding system comprises the SQUARE FOUR and TALL RODS antennas and a ZIL-157-type van truck.

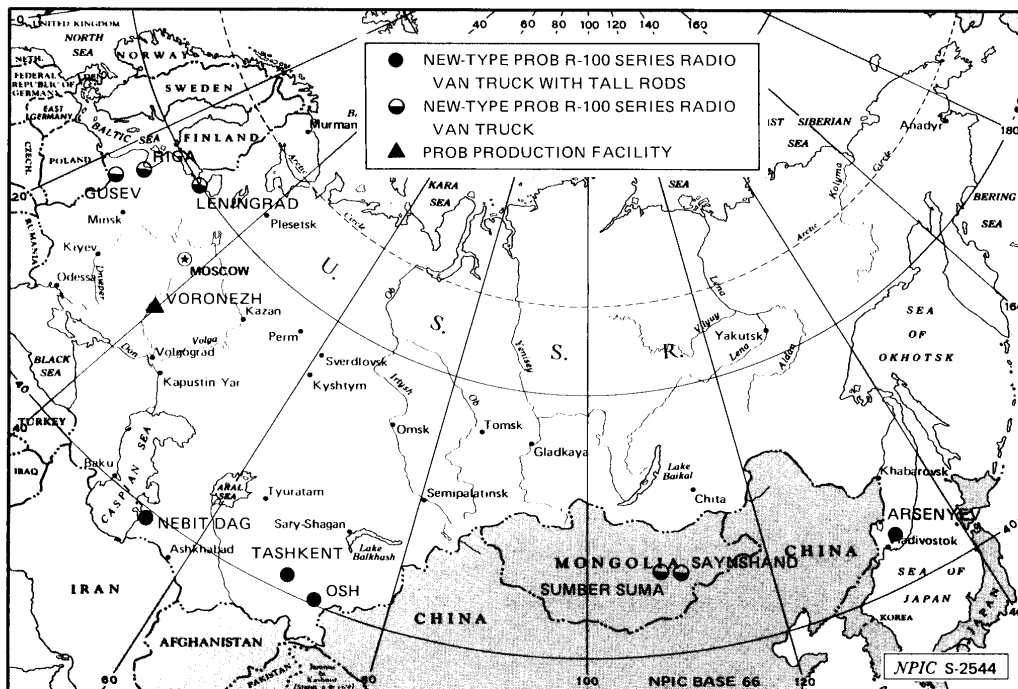


FIGURE 1. LOCATIONS OF NEW-TYPE PROBABLE R-100 SERIES RADIO VAN TRUCK IN USSR

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[redacted] the ZIL-157-type van truck was sighted at Arsenyev, but the SQUARE FOUR array was not observed.

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6. The new-type probable R-100 series radio van trucks are probably being produced at Voronezh Mining Equipment Plant [redacted] where 22 trucks were observed [redacted]

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Other van trucks have been observed at Gusev DF Facility Fix 24 [redacted]

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[redacted] Riga Radio Communications Station NE [redacted]

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Leningrad Army Barracks Bugry AL 14 [redacted] and Saynshand Military

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Installation [redacted] in Mongolia [redacted]

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**REFERENCES**

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**MAPS OR CHARTS**

Various USATC Charts, Series 200

**REQUIREMENT**

Project 143470NK

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## List of Conversion Factors by Classification

### UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

### UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

### UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHEL	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHEL
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

### UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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